UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

50	1	40	

7590

06/24/2010

HAMRE, SCHUMANN, MUELLER & LARSON P.C. P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902 EXAMINER

GUPTA, VANI

ART UNIT PAPER NUMBER

3768

DATE MAILED: 06/24/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,198	08/21/2006	Michiyo Hirayama	10873.1936USWO	1087

TITLE OF INVENTION: ULTRASONIC PROBE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/24/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including debelow or directed other tions.	ng the Patent, advance of herwise in Block 1, by (	orders and notification a) specifying a new co	of morres	naintenance fees v pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPOND		Fee(	s) Transmittal. The rs. Each additiona	is certif I paper	icate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must		
P.O. BOX 2902	IUMANN, MUEL	w2010 LLER & LARSON			Cer	tificate	of Mailing or Trans	mission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/598,198 TITLE OF INVENTION	08/21/2006 J: ULTRASONIC PROB	E	Michiyo Hirayam	a		10	873.1936USWO	1087
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU.	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	09/24/2010
EXAM	MINER	ART UNIT	CLASS-SUBCLASS					
GUPTA	A, VANI	3768	600-459000					
CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alter  (2) the name of a seregistered attorney  2 registered patent listed, no name wil	ames of up to 3 registered patent attorneys OR, alternatively, ame of a single firm (having as a member a d attorney or agent) and the names of up to red patent attorneys or agents. If no name is o name will be printed.				
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON iffied below, no assignee pletion of this form is NO	data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pag an a	ntent. If an assign assignment. and STATE OR C	COUNT	RY)	ocument has been filed for but been filed for but but been filed for but
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	ntus (from status indicate as SMALL ENTITY state		<u>_</u>				ΓΙΤΥ status. See 37 CI	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ttes Patent and Trademark	ed from anyone other the Office.	nan th	ne applicant; a regi	stered :	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
					-			
an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu/irginia 22313-1450. DC 313-1450.	CFR 1.311. The information of U.S.C. 122 and 37 CFR U.S.C. 122 and 37 CFR U.S.C. Time will vary rden, should be sent to the U.S.C. NOT SEND FEES OR persons are required to respect to the control of the	1.14. This collection in depending upon the interest of the control of the complete of the com	s esti indivi iffice S TC	imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	minutes omment Traden S. SENI	to complete, including on the amount of tinark Office, U.S. Department of TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,198	08/21/2006	08/21/2006 Michiyo Hirayama		1087	
53148 75	53148 7590 06/24/2010		EXAMINER		
HAMRE, SCHUMANN, MUELLER & LARSON P.C.			GUPTA, VANI		
P.O. BOX 2902		ART UNIT	PAPER NUMBER		
MINNEAPOLIS, MN 55402-0902		3768			
			DATE MAIL ED: 06/24/2010		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 404 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 404 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/598,198	HIRAYAMA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	VANI GUPTA	3768	
The MAILING DATE of this communication apple All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3:	pears on the cover sheet was (OR REMAINS) CLOSED 5) or other appropriate commarkers. This application is	rith the correspondence address in this application. If not included nunication will be mailed in due course. Th	
1. This communication is responsive to <u>3/15/10</u> .			
2. ☑ The allowed claim(s) is/are <u>1-12</u> .			
3.  Acknowledgment is made of a claim for foreign priority  a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents ha  2.  Certified copies of the priority documents ha  3.  Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gifted the priority of	ve been received. ve been received in Applicated documents have been received. To of this communication to fill IMENT of this application. The initial	ion No  ed in this national stage application from the stage application is deficient.	6
<ul><li>(a) ☐ including changes required by the Notice of Draftspe</li><li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li></ul>		ew ( PTO-948) attached	
(b) ☐ including changes required by the attached Examine Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	er's Amendment / Comment of the comm	the drawings in the front (not the back) of	
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN			
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8/21/06</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	) 6. ☐ Interview Paper No 7. ☐ Examiner'	nformal Patent Application Summary (PTO-413),  ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	
/Vani Gupta/			
Examiner, Art Unit 3768			

#### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the subject matter of the independent claims including "the window comprises a resin portion having a property of letting ultrasound pass therethrough and a metal portion, a part of the metal portion being embedded in an inside of the resin portion and another part not being covered with the resin portion at a position opposed to a peripheral portion of a frame that supports an ultrasonic device that transmits/receives ultrasound, and wherein the window and the frame are directly coupling the part of the metal portion that is not covered with the resin portion with the frame" is not taught or reasonably suggested in the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VANI GUPTA whose telephone number is (571)270-5042. The examiner can normally be reached on Monday - Thursday (8:30 am - 6:00 pm; EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/598,198 Page 3

Art Unit: 3768

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Vani Gupta/ Examiner, Art Unit 3768 /Long V Le/ Supervisory Patent Examiner, Art Unit 3768